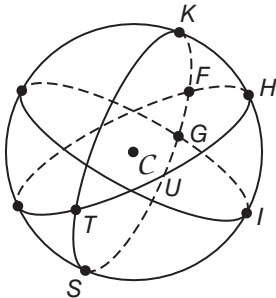


# 12-7 Skills Practice

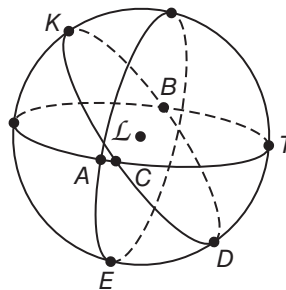
## Spherical Geometry

Name two lines containing point  $K$ , a segment containing point  $T$ , and a triangle in each of the following spheres.

1.

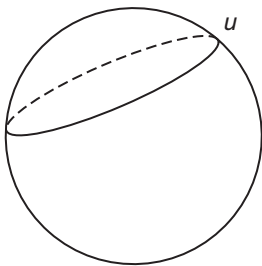


2.

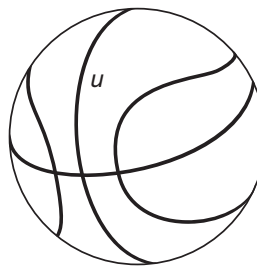


Determine whether figure  $u$  on each of the spheres shown is a line in spherical geometry.

3.



4.



basketball

Tell whether the following postulate or property of plane Euclidean geometry has a corresponding statement in spherical geometry. If so, write the corresponding statement. If not, explain your reasoning.

5. If two lines form vertical angles, then the angles are equal in measure.
6. If two lines meet a third line at the same angle, those lines are parallel.
7. Two lines meet at two  $90^\circ$  angles or they meet at angles whose sum is  $180^\circ$ .
8. Three non-parallel lines divide the plane into 7 separate parts.